SUBJECT INDEX

ACCELEROMETERS 453
Acoustic Pump 300
Acoustics and the New Architecture 319
Adults, Education of (*Commentary*) 421
Advanced Gas Cooled Reactor, Windscale (*Survey*) 281
Advances in Catalysis and Related Subjects, Vol. XI (*Book Review*) 286
Advances in Organic Chemistry: Methods and Results. Volume 1 (*Book Review*) 375
Airborne Instrument Display, Multiple (*Microinstruments Series*) 218
Amino Resins (*Book Review*) 286
Ammonia Manufacture and Uses (*Book Review*) 161
Anisotropic Materials, Polybloc System of Construction for 473
Applications of Theory of Matrices (*Book Review*) 242
Arc Discharge (*Book Review*) 420
Architecture, New, Acoustics and 319
Arithmetic of Sailing 82
Aromatics without Carbon—Phosphonitrilic Derivatives 94
Astrobotany (*Survey*) 374
Atlas of γ-Ray Spectra from Radiative Capture of Thermal Neutrons (*Book Review*) 79
Atomic Age Physics (*Book Review*) 162
Atomic Energy Research Establishment, Winfrith (*Survey*) 460
Atomic Standard of Length 8
Automatic Partition Chromatography (*Survey*) 115
Azides, Reaction Zone Length and Failure of Detonation in 101

BATHYSCAPHE (*Survey*) 117
Bees, Communication 223
Bibliography of Cancer Produced by Pure Chemical Compounds (*Book Review*) 288
BICEP (*Survey*) 460
Biochemical Engineering Series 167, 205, 207, 240, 257, 304, 350, 378
Biochemistry of Antibiotics (*Book Review*) 118
Biological and Chemical Control of Plant and Animal Pests (*Book Review*) 510
Biological Research Centre, Boots' (*Survey*) 36
Biological Value of Proteins 271
Bi-stable Memory Elements (*Survey*) 115
Book Reviews 37, 79, 118, 159, 202, 242, 285, 330, 375, 419, 462, 509
Boots' New Biological Research Centre (*Survey*) 36
Brewing (*Biochemical Engineering Series*) 167, 205, 207
Bristol Siddeley 3 MW Turbogenerator (*Survey*) 33
British Leather Manufacturers Research Association (*Survey*) 241
British Railways Research Laboratory (*Survey*) 201
British Steel Casting Research Association (*Survey*) 328
Brittle Lacquers 18
Bronze Age Food (*Survey*) 35
Builders and Fillers in Household Detergents 336
BUORD Frame Sizes 141
Business Films, how to Make and Use Them (*Book Review*) 332

CANNING 350
Carbon Black, x-Ray Scattering of (*Letter*) 163
Cardiac Pump (*Survey*) 78
Carrier Gas Method for Determination of Hydrogen in Metals 323
Ceramic, Silicon Nitride 261
CERN Proton Synchrotron (*Survey*) 36; (*Commentary*) 465
Chemical Abstracts 240
Chemical Engineering Practice Vol. 11: Works Design etc. (*Book Review*) 332
Chemical Titles 240
Chemistry and Clothing 12
Chemotherapy (Virus Research) 53
Chromatography Apparatus, Partition (*Survey*) 115
Classification and Indexing in Science (*Book Review*) 244
Clothing, Chemistry and 12
Coagulation Process of Water Purification (*Survey*) 35
Coil Spring Federation Research Organization (*Survey*) 201
Colleges of Advanced Technology 165
Commentary 1, 41, 81, 121, 165, 205, 240, 245, 289, 333, 377, 421, 465
Commonwealth Committee on Mineral Processing (*Survey*) 373
Communication in a Honeybee Colony 223
Complex Spectra—Interpretation of 428; Some Techniques for the Examination of 363
Computer Devices, Cryotrons *etc* 49
Computer Section for UKAEA (*Survey*) 117
Computers, Bi-stable Memory Elements (*Survey*) 115
Conserving Water (*Survey*) 418
Continuous Culture Process Applied to the Pharmaceutical Fermentation Industry (*Biochemical Engineering Series*) 257, 309
Control of Radioactive Wastes (*Science in Parliament*) 32
Corrosion Research at N.C.L. (*Survey*) 507
Coulter Counter for Particles 129
Crowthorne, Road Safety Research Track at (*Survey*) 283, 507
Cryotrons and Other Superconducting Computer Devices 49
Crystal Chemistry of Simple Compounds of Uranium, Thorium, Plutonium and Neptunium (*Book Review*) 203
Crystal Compounds and Irradiated Graphite 441, 492

DECONTAMINATION, RADIOLOGICAL 383
Dendritic Crystallization (*Book Review*) 37
Detergents, Household Builders and Fillers in 336
Determination of Hydrogen in Metals: A Carrier Gas Method 323
Detoxication Mechanisms (2nd Edn.) (*Book Review*) 287
Department of Scientific and Industrial Research (*Survey*) 201, 241, 282, 327, 373, 418, 507
Dictionary of Nutrition and Food Technology (*Book Review*) 509
Disposal of Radioactive Waste (*Science in Parliament*) 32; (*Survey*) 117
Dollis Hills Post Office Research Station (*Survey*) 461
Dounreay Fast Reactor (*Survey*) 117
Dragon Project (*Survey*) 460; (*Commentary*) 465
Dyes, Modern 122

EDITOR, ELECTRONIC (*Survey*) 158, 240
Education of Adults (*Commentary*) 421
Education, Physics (*Commentary*) 333
Education, Polytechnical, in the U.S.S.R. 198
Electric Arc, The (*Book Review*) 119
Electricity Supply in Great Britain 355

Electrochemical Thermodynamics and Kinetics, Paris, 1957, Proceedings of the Ninth meeting of the International Committee for (*Book Review*) 80
Electrolytic Conductance (*Book Review*) 79
Electrolytic Manufacture of Chemicals from Salt (*Book Review*) 161
Electron Microscope Image Intensifier (*Survey*) 283
Electron Physics (*Book Review*) 242
Electron Theory of Metals 179
Electronic Editor (*Survey*) 158, 240
Electronic Equipment, Microminiaturization of, (*Microinstruments Series*) 187
Electronic Instruments, Miniature, for Medical Research, (*Microinstruments Series*) 275
Electronic Measurement of Particle Size 128
Emission microscope (*Survey*) 373
Encyclopaedia on Cathode Ray Oscilloscopes and their Uses (*Book Review*) 463
Energy Principles in Applied Statics (*Book Review*) 375
English, the Teaching of (*Book Review*) 80
Enzyme Dewoolling and Unhairing (*Survey*) 241
Epitaxially Grown Films, Magnetic Properties of 404
Experimental Nuclear Physics (*Book Review*) 118
Exploding Wires (*Book Review*) 285
Exploring the Structure of Matter (*Book Review*) 243
Extensometer, Recording (*Survey*) 115
Eye, Film and Camera in Color Photography (*Book Review*) 375

Ferrites (*Book Review*) 38
Films, Epitaxially Grown, Magnetic Properties of 404
Fire Research Station (*Survey*) 328, 507
Fires in Buildings, Studies Using Models *Part I*, 69; *Part II*, 87
Fischer-Tropsch Process (*Survey*) 373
Fizika Tverdogo Tela 242
Flight, Man Powered 436; (*Survey*) 329
Flight Observer (*Survey*) 418
Flight, Soaring, Modern Techniques in 411
Fluorine Chemistry 1949–1956 (Parts I, II and III), Soviet Research in (*Book Review*) 40
Food for the Future (*Commentary*) 377
Food Preservation by Irradiation 193, 379
Foodstuffs, Freezing, Freeze-Drying and Freeze-Concentration (*Biochemical Engineering Series*) 207, 379
Free Radicals: An Introduction (*Book Review*) 39
Free Radicals as Studied by Electron Spin Resonance (*Book Review*) 38
Freezing, Freeze-Drying and Freeze-Concentration of Foodstuffs (*Biochemical Engineering Series*) 207, 379
Fruit-Flavours, Volatile, Isolation and Identification 295
Future of Non-Ferrous Mining in Great Britain and Ireland (*Book Review*) 464

Gas in Industry (*Survey*) 158
Gliders 411
Glues, Modern 481
Gmelins Handbuch der Anorganischen Chemie (*Book Reviews*) 39, 376
Graphite, Properties of *Part I* 390; *Part II* 441; *Part III* 492
Gratings, Photographic Production, for Measurement 2
Gyroscopes 453
Gyroscopes, Miniature (*Microinstrument Series*) 42,

Handbook of Automation, Computation and Control. Vol. 2. Computers and Data Processing (*Book Review*) 331
Hartman Manpowered Ornithopter (*Survey*) 329, 437
Heating and Ventilating Research Organization (*Survey*) 201
Hoister, Hartley (*Survey*) 35
Honeybee Colony, Communication in 223
Hovercraft 173
Human Engineering (*Survey*) 157
Hydrogen in Metals: Determination of by a Carrier Gas Method 323

Image Intensifier, Electron Microscope (*Survey*) 283
Importance of Safety in the Design of Road Vehicles (*Commentary*) 245
Inertial Navigation 44; Shipborne Systems, 453
Inks, Letterpress and Offset, the Rheology of 212
Inorganic Chemistry (*Book Review*) 510
Inorganic Polymers, New Ways With 136
Instruments for Space Research (*Microinstruments Series*) 290, 329
Interferon, Virus Interference and 390
International Conference on Co-ordination Chemistry (*Book Review*) 463
International Series of Monographs on Nuclear Energy (*Book Review*) 79
International Union of Pure and Applied Chemistry (*Survey*) 461
Interpretation of Complex Spectra 363, 428
Introduction to the Organic Chemistry of High Polymers (*Book Review*) 510
Introduction to the Theory of Quantized Fields (*Book Review*) 37
Ion exchange, a Laboratory Manual (*Book Review*) 160
Ion Exchange Resins (*Book Review*) 162
Irradiated Graphite 492
Irradiation, Processing by 151, 193
Isolation and Identification of Volatile Fruit-Flavours 295
Isotopes at Work 240

Joint Fire Research Organization 69, 87, 328, 507
Journal of Electroanalytical Chemistry: Vol. 1, No. 1. August 1959 (*Book Review*) 162

Lacquers, Brittle 18
L.C.C. Research (*Survey*) 115
Lectures on Nuclear Theory (*Book Review*) 161
Length, an Atomic Standard of 8
Letterpress and Offset Inks, the Rheology of, 212
Letters to the Editor 163, 284,
Light Wavelengths, Measurement of Length by 8
Littoral Drift (*Survey*) 418
Loudspeaker-Powered Air Circulation Pump 300
Low Temperature Computer 53
Low Temperatures 207

Machine Translation Dictionary, Russian 148
Magnetic Materials, New Varieties of 485
Magnetic Properties of Epitaxially Grown Films (*Survey*) 404, 462
Magnetohydrodynamic Power Generation 466
Man Powered Flight 436 (*Survey*) 329
Maritime Organic Moderated and Cooled Reactor (*Book Review*) 204
Masers (*Book Review*) 39
Master Vision Screener (*Survey*) 34
Mechanical Polishing of Metals, Modern Ideas on 344
Mechanical Properties of Intermetallic Compounds (*Book Review*) 419
Medical and Pharmaceutical Products, Sterilization of by Irradiation 151

Medical Electronics (*Survey*) 78, 275
Medical Research, Miniature Electronic Instruments for, (*Microinstruments Series*) 275
Metals, the Electron Theory of 179
Methods for the Determination of Toxic Substances in Air (*Book Review*) 163
Methods of Preserving Food other than Fermenting, Freezing or Canning (*Biochemical Engineering Series*) 378
Microinstruments Series 41, 42, 105, 141, 187, 218, 275, 290, 329, 454
Microminiaturization of Electronic Equipment (*Microinstruments Series*) 187
Microphotographs, Emission (*Survey*) 374
Microscope, Electron, Image Intensifier (*Survey*) 283
Microscope, Emission (*Survey*) 373
Microscope, Solid Image 421
Microscopic Sedimentary Petrography (*Book Review*) 376
Microtexts (*Survey*) 78
Mineral Processing (*Survey*) 373
Miniature a.c. Servomotors and Synchros (*Microinstruments Series*) 141
Miniature Electronic Instruments for Medical Research (*Microinstruments Series*) 275
Miniature Gyroscopes (*Microinstruments Series*) 42, 454
Miniature Relays for Use in Electronic Equipments (*Microinstruments Series*) 105
Minute, The (*Commentary*) 41
Moby Dick (Nuclear Powered Submarine) (*Survey*) 34
Modern Dyes 122
Modern Glues 481
Modern Ideas on the Mechanical Polishing of Metals 344
Modern Techniques in Soaring Flight 411
Modern Trends in the Processing of Canned Vegetables (*Biochemical Engineering Series*) 350
Moisture in Textiles (*Book Review*) 332
Molecular Basis of Evolution (*Book Review*) 159
Multiple Airborne Instrument Display (*Microinstruments Series*) 218

National Chemical Laboratory (*Survey*) 507
National Gas Turbine Establishment (*Survey*) 327
National Physical Laboratory Open Days (*Survey*) 282
Natural Resources in Scotland 1
Navigation Indicator 221, 222
Navigation Systems, Inertial 453
Neurochemistry of Nucleotides and Amino Acids (*Book Review*) 464
New Varieties of Magnetic Materials 485
New Ways with Inorganic Polymers 136
Non-Homogeneity in Elasticity and Plasticity (*Book Review*) 204
Nuclear Fuel Elements (*Book Review*) 288
Nuclear Physics, Low Energy Interaction and Nuclear Structure, Proceedings of International Conference on (*Book Review*) 119
Nuclear-Powered Submarine (*Survey*) 34
Nuclear Reactor Materials (*Book Review*) 162
Nucleonic Thickness Gauge (*Survey*) 115

Offset Inks and Letterpress, the Rheology of 212
Optical Scanning (Solid Image Microscope) 421
Organization of Building Sites (*Book Review*) 120
Organosilicon Compounds (*Book Review*) 509
Organotin Compounds (*Survey*) 116
Organotin Compounds, The Scope of in Industry 449
Origins and Founders, Royal Society (*Book Review*) 335
Ornithopter, Hartmann 436, (*Survey*) 329

Parliamentary and Scientific Committee Conversazione (*Survey*) 34
Particle Size, Electronic Measurement of 128
Pasteurizing Equipment 380
Penicillin Process 259
Pharmaceutical Fermentation Industry, Continuous Culture Process Applied to (*Biochemical Engineering Series*) 257
Pharmaceutical and Medical Products, Sterilization by Irradiation 151
Phosphonitrilic Derivatives—Aromatics without Carbon 94
Photoelectric Microptic Polarimeter, Prototype (*Survey*) 115
Photographic Production of Gratings for Measurement 2, 367
Photoperiodism in Plants and Animals (*Book Review*) 288
Physical Constants of Sea Ice 310
Physical Metallurgy of Stress Corrosion Fracture (*Book Review*) 285
Physical Society Exhibition (*Survey*) 115
Physico-Chemical Measurements at High Temperatures (*Book Review*) 161
Physics Education (*Commentary*) 333
Planisphere of Mars (*Survey*) 374
Polarimeter, Photoelectric Microptic (*Survey*) 115
Polishing of Metals, Modern Ideas on 344
Polybloc System of Construction for Anisotropic Materials 473
Polymer (*Survey*) 116
Polymer Viscoelasticity and Liquid Structure 234
Polymers, Inorganic, New Ways with 136
Polytechnical Education in the U.S.S.R. 198
Post Office Research Station (*Survey*) 461
Power Generation, Magnetohydrodynamic 466
Power Station, Unmanned 33
Precision Temperature Measurement Outside the Laboratory 250
Preserving Food, Methods of 193, 207, 350, 378
Pressurized Assembly Cabinet (*Survey*) 117
Principles of Modern Building. Volume 1 (*Book Review*) 202
Principles of Optics (*Book Review*) 462
Principles of Extraction of Metals (*Book Review*) 330
Proceedings of International Conference on Nuclear Physics, Low Energy Interaction and Nuclear Structure (*Book Review*) 119
Proceedings of the Ninth meeting of the International Committee for Electrochemical Thermodynamics and Kinetics, Paris, 1957 (*Book Review*) 80
Processing by Irradiation *Part I*, 151; *Part II*, 193
Process Integration and Instrumentation (*Book Review*) 162
Production of Vaccines 304
Progress in Inorganic Chemistry: Volume 1 (*Book Review*) 202
Propellents, Rocket *Part I*, 26; *Part II*, 60
Properties of Graphite *Part I*, 390; *Part II*, 441; *Part III*, 492
Protein Resources 270
Proton Synchroton (*Survey*) 36
Prototype Metre Bar 8
Pump, Acoustic 300
Pure and Applied Chemistry (*Survey*) 461

Qualitative Analysis Tables 284
Quantized Fields, Introduction to the Theory of (*Book Review*) 37

RADIO WAVE PROPAGATION AND ATTENTUATION IN THE TROPOSPHERE 503
Radioactive Chemicals (*Survey*) 240
Radioactive Particulates, Removal of from Air 228
Radioactive Sources (*Survey*) 240
Radioactive Substances Advisory Committee 32
Radioactive Wastes, Control and Disposal of (*Science in Parliament*) 32; (*Survey*) 117
Radioisotopes for Industry (*Book Review*) 159
Radioisotopes, Industrial Use of 240
Radiological Decontamination — Theoretical and Practical Aspects 383
Reaction Zone Length and Failure of Detonation in Azides 101
Recent Research in Molecular Beams (*Book Review*) 419
Refrigerator, Thermo-electric 242
Relays, Miniature, for Use in Electronic Equipments (*Microinstruments series*) 105
Removal of Radioactive Particulates from Air 228
Research in London's Technical Colleges 67
Research in Schools (*Commentary*) 121
Research in Technical Colleges in the Provinces (*Commentary*) 165; (*Letters to the Editor*) 284
Rheology of Letterpress and Offset Inks 212
Road Safety Research Track (*Survey*) 283, 507
Road Vehicles, the Importance of Safety in the Design of (*Commentary*) 245
Rocket Propellents *Part I*, 26; *Part II*, 60
Royal Society, A Brief History of (*Book Review*) 335
Royal Society, Tercentenary of the 248, 334
Russian Machine Translation Dictionary 148

SAILING, THE ARITHMETIC OF 82
Schools Essay Competition 65, 104, 452, 502
Schools, Research in (*Commentary*) 121
Science in Parliament 32
Scope of Organotin Compounds in Industry 449
Scottish Council (Development and Industry) 1
Scots Wha Hae (*Commentary*) 1
Sea Ice, Physical Constants of 310
Servomotors and Synchros, Miniature a.c. (*Microinstruments Series*) 141
Severn Bridge (*Survey*) 283
Ship Hydrodynamics Laboratory (*Survey*) 282
Shipborne Inertial Navigation Systems 453
Silicon Nitride, a Ceramic for High Temperature Engineering and Other Applications 261
Soaring Flight, Modern Techniques in 411
Solar Rays Used in Production of Chemicals 201
Solid Image Microscope 422
Solid State Physical Electronics (*Book Review*) 287
Some Techniques for the Examination of Complex Spectra 363
Soviet Physics—Solid State 242
Soviet Research in Fluorine Chemistry 1949–1956 (Parts I, II and III) (*Book Review*) 40
Space Research, Instruments for (*Microinstruments Series*) 290, 329
Spectra, Complex, Interpretation 428; Examination 363
Spectrometry, Infra-red and Mass 298
Staff College for Technologists (*Commentary*) 81
Sterilization of Medical and Pharmaceutical Products, Processing by Irradiation 151
Structure and Properties of Thin Films (*Book Review*) 330
Studies of Fires in Buildings using Models, *Part I*, 69; *Part II*, 87
Submarine, Nuclear-Powered (*Survey*) 34
Survey 33, 78, 115, 157, 201, 240, 281, 327, 373, 419, 460, 507
Symposium on Basic Research (*Book Review*) 204
Synchros, Miniature a.c. Servomotors and (*Microinstruments Series*) 141
Synthetic Detergents 336

TANK TESTING 82
Tantalum and Niobium (*Book Review*) 285
Teaching of English, the (*Book Review*) 80
Technical Colleges in the Provinces, Research in (*Commentary*) 165; (*Letters to the Editor*) 284
Technical Colleges, Research in London's 67
Technical Education, U.S.S.R. 198
Technique of Organic Chemistry. Vol. 1. Physical Methods of Organic Chemistry, 3rd Edn (*Book Reviews*) *Part I*, 244; *Part II*, 420
Technologists, Staff College for (*Commentary*) 81
Telecommunications (*Survey*) 36
Temperature Measurement, Precision 250
Temperatures, Low (*Survey*) 282
Tercentenary of the Royal Society 248, 334
Timber, Reinforced (*Survey*) 116
Theoretical Elasticity and Plasticity for Engineers (*Book Review*) 40
Thermo-electric Refrigerator (*Survey*) 242
Tools of Biological Research (*Book Review*) 203
Translation Dictionary, a Russian Machine 148
Treatise on Analytical Chemistry. Part 1. Theory and Practice. Vol. 1. (*Book Review*) 330
Troposphere, Radio Wave Propagation and Attenuation in 503
Tuberculin-Tested Dairy Herds (*Survey*) 35
Turbojet Firefighter (*Survey*) 327, 508

U.K.A.E.A. (*Survey*) 116, 117, 240, 281, 283, 460, 465
Ultrasonic Welding (*Survey*) 78
Urban Organization (*Commentary*) 289
U.S.S.R., Polytechnical Education in the 198

VACCINES, PRODUCTION OF 304
Vehicles, Road, the Importance of Safety in the Design of (*Commentary*) 245
Vertical Take-Off—A Survey 172
Virus Interference and Interferon—a New Approach to Virus Chemotherapy 398
Virus Research with Special Reference to Chemotherapy 55
Virus, Vaccines 307
Viscoelasticity and Liquid Structure, Polymer 234
Viscosity of Gases and Liquids (*Survey*) 115
Volatile Fruit-Flavours, Isolation, Identification 295

WARREN SPRING LABORATORY (*Survey*) 373
Water Conservation (*Survey*) 418
Waverley Gold Medal Essay Competition 66, 422, 427, 452, 466, 473, 502
Welding, Ultrasonic (*Survey*) 78
Windscale, Advanced Gas Cooled Reactor (*Survey*) 281
Winfrith (*Survey*) 117
World Food and Population 377

X-RAY SCATTERING OF CARBON BLACK (*Letter*) 193

YACHTS 84

ZENITH (*Survey*) 460

AUTHOR INDEX

Names of authors of articles are printed in capitals and small capitals, and the page numbers of their articles are in **bold** type.

Aamodt, R. L. 472
Accascina, F. 79
Achorn, G. B. 309
Acton, F. S. 243
Adam, N. K. 389
Akamatu, H. 164
Akita, K. 77
Albert, P. 397
Ali, D. 397
Allen, A. O. 70, 77
Allen, R. M. 427
Alper, T. 157
Anders, F. J. 409, 410
Anderson, A. W. 156
ANDERSON, D. L. **310,** 311, 315, 318
Anderson, S. 280
Andrade, E. N. da C. 335
Andrewes, C. H. 403
Andrews, R. D. 240
Andrianov, K. A. 136, 139, 140
Anfinsen, C. B. 159, 160
APPS, E. A. **212,** 217
Artandi, C. 157
Asher, R. C. 494, 502
Ashton, L. A. 74, 77
Assur, A. 311, 318
Atkins, H. J. B. 203
Atkinson, M. P. 7
Audrieth, L. F. 100
Austin, L. G. 397
Axelrod, N. N. 397

Bach, H. 100
Bacon, G. E. 397, 500, 502
BAKER, D. W. **275,** 276, 278, 280
Baluda, M. A. 403
Barber, C. R. 250, 256
Barber, D. L. A. 7
Bar-Hillel, Y. 150
Barker, J. 211
BARKLA, H. M. **82,** 86
Barlow, A. J. 237, 240
Baskin, Y. 397
Basset, J. 396, 397, 444, 448
Bassett, C. A. L. 154, 157
Bastiansen, O. 100
Bate, L. 408, 410
Baumann, F. 127
Baune, J. 280
Beck, A. 250, 256
Becke-Goehring, M. 100
Beech, G. R. 321
Beer, R. 372
Beilby, Sir George 344–349
Belcher, R. 284
Bell, J. 147
Bellamy, W. D. 157
Belskaya, I. K. 150
BENDER, A. E. **270,** 509
Bennett, W. E. 472
Beraha, L. 197
Berch, J. 343, 389
Berg, R. 135
Berman, R. 442, 448
Bernal, J. D. 240, 391, 397
Bertani, G. 59
Bethe, 485
Bethe H. 406, 410
BIDMEAD, D. S. **295**
Bigmore, R. H. 72, 77
Billaudelle, H. 309
Birch, S. F. 343
Biscoe, J. 164, 392, 397
BLACKMAN, L. C. F. **390,** 397, **441,** 487, **492,** 497, 501, 502
Blair, J. S. 25
Blais, J. F. 184, 286
Bland, D. R. 239
Blitz, M. 387, 389
Bockris, J. O'M. 161, 162
Bode, H. 100
Boehm, H. P. 397 502,
Boiten, R. G. 20, 25
Bogoliubov, N. N. 37
Bokesch, E. R. 309
Bollmann, W. 396, 397
Bonet-Maury, P. 154, 157
Born, M. 462
BOVEY, L. **363,** 365, 367, 368, 369, 371, 372, **428,** 434, 435
Bowden, F. P. 101, 102, 104, 344, 349, 397
Bowes, P. C. 77
Bowles, R. F. 213, 216, 217
Bowman, J. C. 392, 397, 442, 448
Boyd, E. L. 406, 409, 410
Boyd, J. 17
BOYD, R. L. F. 275, **290,** 329
Boyer, R. F. 240
Boyle, W. S. 448
BOZORTH, R. M. 485
Bradley, J. E. G. 37
Brady, R. O. 464
Brasch, A. 157
Braschos, A. 100
BRIDGES, B. A. **151,** 153, 156, 157
Bright, W. M. 100
Brinker, W. O. 157
Brockway, L. O. 100
Brookes, B. C. 80
Brooks, H. 448
Brooks, J. 197
Brown, A. R. G. 394, 397, 480
Brown, C. E. 416
Brown, M. M. 407, 410
Brown, W. L. 197
Brownell, L. E. 157
Brownlow, D. 208, 211
Brüche, E. 347, 349
Brunnen, P. L. 157
Brunner, R. 118
Brydson, J. A. 140
Brynko, C. 211
Bubl, E. C. 197
Buck, D. A. 49, 54
Bueche, F. 240
Bull, W. E. 100
Bundy, F. P. 448
Bupp, L. P. 397, 502
BURCH, J. M. **2,** 7, 367
BURKE, D. C. **398,** 403
Burks, R. E. 197
Burton, W. G. 197
Bushaw, D. W. 242
Butkovich, T. R. 314, 318
BUTLER, C. **223,** 227
Butler, J. A. V. 240
Bütow, K. 100
Butterworth, M. 17
Butts, J. S. 197

Cadenbach, G. 502
Cain, R. I. 156
Callendar, H. L. 250, 256
Callis, C. F. 338, 343
Calvert, R. 254, 256
Calvin, M. 389
Camp, M. 338, 343
Campbell, D. 329
Campbell, D. O. 343
Campbell, H. C. 70, 77
Campmas, P. 256
Canac, F. 320, 322
Carozzi, A. V. 376
Carroll, 100
Carter, J. L. 445, 448
Catchpole, A. G. 284
Catford, J. C. 80
Catterall, J. H. 186
Cawood, W. 48
Chaberski, A. 397, 448
Chace, W. G. 285
Chalmers, J. 155, 157
Chapman, A. C. 100
Charlot, G. 162
Charlton, T. M. 375
Chase, M. 56, 59
Chiambalero, C. J. 197
Child, W. C. 240
Churchill, B. W. 157
Clark, H. A. M. 254, 256
Clarke, E. 19, 25
Clarke, I. D. 197
Clause, J. 480
Clauss, A. 502
Cloutier, J. A. R. 197
COE, F. R. **323**
Cohen, S. S. 56, 59
Coleby, B. 197
Coleman, S. 197
Colgate, S. A. 472
Collins, L. E. 405, 407, 409, 410
Colovos, G. C. 157
Connor, A. K. 320, 322
Controulis, J. 157
Cook, B. P. 164, 397
Cooke, F. 323, 327
Coons, A. H. 59
Coover, H. W. 184
Coppens, A. 295, 299
Corbridge, D. E. C. 100
Corlett, W. J. 343
Cornelius, J. 256
Cornwell, P. B. 197
Corse, J. 299
Cotton, F. A. 202, 501
Cottrell, A. H. 180, 182, 186
Coulter, 128, 135
COUSINS, MISS S. **67, 81, 165, 284**
Crabtree, H. 48
Craggs, J. 472
Craig, D. P. 98, 99, 100
Craik, 59
Crawford, A. B. 504, 506

Crawford, B. H. 4, 7
Cremer, H. W. 332
Crittenden, E. C. 408–410
Croft, R. C. 492, 494, 501, 502
Crosswhite, H. M. 435
Crow, L. R. 147
Crowe, J. W. 51, 54
Cullen 468
Currie, L. M. 443, 448

Daasch, L. W. 100
DaCosta, E. 197
Danhauser, W. 240
Danilov, V. I. 164
Dapper, E. R. 309
Darlington, C. D. 335
Darnell, J. E. 59
DARWIN, Sir Charles **334**
Dauphinee, T. M. 250, 256, 300, 303
Davidson, H. W. 164, 397
Davidson, K. S. M. 82, 84, 85, 86
Davies, R. O. 240
Dawson, I. M. 397
Day, E. J. 197
Daynes, H. A. 323, 327
de Boer, J. H. 502
De Bruyne, N. A. 182, 184
Deimel, R. F. 48
Delbruck, 56
Demidov, A. M. 79
Depoux, R. 403
De Sorbo, W. 441, 442, 448
de Vries, P. H. 154, 157
de Vries, T. A. 100
Dew, G. D. 2, 7
Dexter, D. L. 397
Diakov, N. M. 87, 93
DICKINSON, L. **55**, 59
Dieke, G. H. 435
Dienes, G. J. 397
Di Marzio, E. A. 239, 240
Dimick, K. P. 299
Dishon, B. 100
Dodge, J. W. 211
Donaldson, P. E. K. 427
Doolittle, A. K. 238, 240
Dorling, E. B. 65
Dorrance, W. R. 403
Dorsey, N. E. 314, 318
Doty, D. M. 197
Drake, M. P. 197
Draper, C. S. 48
Drigo, A. 409, 410
Drisch, N. 17
Duffey, G. H. 101, 104
DUMMER, G. W. A. **187**
Dundas, P. H. 397, 448, 497, 502
Dunn, B. 435
Durham, K. 338, 343
Durif, S. 164
Dutta, A. K. 448, 480
Dzurus, M. L. 493, 501, 502

Eaborn, C. 509
Eagan, C. J. 276, 280
Eagle, H. 59
Eborall, R. 325, 327
Eddy, G. C. 211
Ede, A. J. 208, 211
Eley, D. D. 286
Elford, W. J. 403
ELLIS, R. M. **275**, 280
Elsner, R. W. 280
Elving, P. J. 330
El'yashevich, M. A. 431, 435
Emeléus, H. J. 501
Enders, J. F. 59, 401, 403
Engle, L. S. 214, 217
Entwistle, D. 17
Eskew, R. K. 299
Essen, L. 419
Estermann, I. 419
Euler, J. 443, 448
Evans, B. L. 103, 104
Evans, H. W. 504, 506
Evans, R. M. 375
Evans, U. R. 343
Evanusa, S. 242
Evers, C. F. 211
Ewins, D. J. 452
Eyring, H. 101–104

Farrer, J. T. 279, 280
Fazakerley, H. 156, 157
Fenton, F. 197
Ferry, E. S. 48
Ferry, J. D. 235, 236, 238, 239, 240
Fetsko, J. M. 214, 217
Finch, G. I. 349
Finch, J. T. 59
Findlay, S. M. 399, 403
FINDLAY, W. P. K. **167**
Fischl, C. F. 72, 77
Fitzer, E. 397
Fitzgerald, E. R. 235, 236, 240
Flaks, J. G. 59
Fleck, Sir Alexander 81, 377, 502
Fleming, R. 311, 318
Fletcher, J. F. 397, 502
Fletcher, J. M. 389
Flory, P. J. 239, 240
Flosdorf, E. W. 210, 211
Foley, R. T. 389
Follett, E. A. C. 397
Forrest, J. C. 211
Foshag, F. C. 472
Foster, L. M. 394, 397
Fournet, G. 164
Fox, T. G. 239, 240
Franceschini, R. 197
Frankel, J. W. 403
Frank-Kamenetskii, D. A. 70, 77
FRANKLIN, D. L. **275**, 280
Franklin, R. 164
Franklin, R. E. 392, 397
Fred, M. 433, 435
Fredenhagen, K. 493, 502
Freedman, J. F. 406, 410
Freeman, B. M. 156, 157
Freeman, N. K. 59
Fricke, H. 133, 135
Friedemann, T. E. 197
Frommhagen, L. H. 59
Frost, B. R. T. 162
Fuchs, L. H. 448
Fujita, K. 77, 88, 93
Fuld, G. J. 153, 157
Funukawa, K. 506
Fuoss, R. M. 79

Gaden, E. L. 197
Gage, J. C. 163
Galt, J. K. 448
Galwey, A. K. 65
GANE, R. **207**, 208, 211, 379
Ganguli, N. 448, 480
Gantmacher, F. R. 242
Garman, B. A. 480
Garvey, R. J. 147
Gautier, M. 250, 256
Gay, P. J. 452
Gaydon, A. G. 472
Gee, G. 116, 240
Geiger, H. 135
Gerhardt, P. 133
Germer, L. H. 349
Gerstenkorn, S. 371, 372
Gibbs, J. H. 239, 240
Gill, Miss S. 452
Gilleo, 488, 489
GISSANE, W. **247**
Gladstone, J. H. 95, 100
Glass, D. V. 377
Glasstone, S. 240
Glazebrook, R. 7
Glew, G. 197
Godfrey, D. E. R. 40
Goldblith, S. A. 153, 157, 197
Gomer, R. 349
Goodhart, H. C. N. 412
Gordon, I. 403
Grabbe, E. M. 331
Grandine, L. D. 235, 236, 240
Greaves, R. I. N. 210 211
GREEN, J. H. S. **136**
Green, L. 397
Greenwood, J. W. 389
Greer, A. P. 280
GREGORY, R. L. **422**, 427, 452, 502
Griffiths, J. D. 17
Griffiths, V. 256
Griggs, C. H. R. 178
Grisdale, R. O. 397
Groche, L. R. 48
Groman, N. B. 403
Groninger, H. S. 197
Groshev, L. V. 79
Gross, B. 235, 239
Gross, D. 77
Gross, R. E. 155, 157
Grundman, C. 100
Grunfest, I. J. 184
Guare, J. 389
Gugenberger, Mme. P. 119, 120
Guild, J. 7
Guinier, A. 164
Gunn, E. E. 389
Guntheroth, W. G. 280
Gurton, O. A. 101, 104

Haber, C. P. 100
Hackerman, J. 389
Hackerman, N. 387, 389
Haddock, N. H. 126, 127
Hader, R. N. 343
Hadfield, D. 490
Hadzi, D. 502
Haering, R. R. 391, 397, 444, 445, 448
Haigh, B. P. 25

Hale, D. K. 160
Hall, A. A. 147
Hall, H. T. 444, 448
Hall, J. A. 250, 256
Hall, R. G. N. 2, 7
Hamister, V. C. 443, 448
Hannan, R. S. 197
Hardie, D. W. F. 161
Harding, A. J. 161
Harris, D. J. 468, 471, 472
Harris, M. 389
Harris, R. J. C. 210, 211
Hart, S. 197
Hart, V. E. 93
Härtel, K. 452
Hartley, Sir Harold 335
Hartley, S. B. 100
Hartmann, E. 437
Hashimoto, H. 397
Hathaway, S. D. 504, 506
Hausner, H. H. 288
HAWLEY, R. 452, **466**
Hawthorne, E. W. 280
Hawthorne, W. R. 92, 93
Hay, J. M. 211
HEAL, H. T. **453**
Healy, T. V. 386, 389
Hearle, J. W. S. 17, 332
Heath, G. A. 64, 65
HEAVENS, O. S. **404**, 405, 407, 408, 409, 410, 462
Hedberg, K. 100
Hedberg, L. 100
Hedén, C. G. 309
HEDGES, E. S. **449**
Heiss, R. 211
Heitz, L. P. 510
Henle, G. 403
Henle, W. 403
Hennig, G. R. 397, 492, 493, 496, 501, 502
Herbert, D. 257, 258, 260
Herbert, Sir Edwin 355
Hérold, A. 494, 495, 502
Herring, D. L. 100
Hershey, A. D. 56, 59
Heslop, P. B. 510
HICKIN, E. M. **503**
Hickman, J. R. 193, 197, 379
Hickson, V. M. 20, 25
Hill, E. C. 153, 157
HILLIARD, A. 452, **473**, 480
Hinder, M. 299
Hinkley, 74
Hinshelwood, Sir Cyril 203, 249, 334
Hinton, Sir Christopher 335
Hinton, V. 407, 410
Hird, D. 72, 74, 75, 77, 90, 93
Hirsch, P. B. 164
Ho, M. 401, 403
Hoagland, M. B. 58, 59
Hobbs, E. 100
Hodgkin, A. L. 248, 335
Hoejenbos, L. 295, 299
Hoffman, R. W. 406, 408, 409, 410
Hofmann, U. 397, 498, 501, 502
Hoge, H. J. 256
Hogg, D. G. 504, 506
Hogg, J. 427
Holden, J. R. 100
Hollaender, A. 157
Holmes, H. 343
Holmes, J. D. 94, 100
Holmstedt, B. 100
Holst, R. 498, 502
Hooker, S. G. 176
Horn, F. H. 392, 397
Horne, T. 153, 156, 197
Horrigan, R. V. 157
Hottel, H. C. 92, 93
Houska, C. E. 397
Houtermans, T. 157
Houwink, R. 184
Hove, J. E. 397, 441, 443, 448, 500, 502
Howard, J, 214, 217
Howard-Flanders, P. 157
Hudgins, T. F. 157
Hudimac, A. A. 408, 410
Hudson, P. B. 452
Hughes, E. O. 389
Hughes, T. P. 344, 349
Hull, R. 59
Hume-Rothery, W. 186
HUNTER, J. J. **250**
Hurst, E. W. 59
HYDE, N. E. **105**

Ilavsky, J. 157
Imperial, G. 397
Ingram, D. J. E. 38, 39
Ingram, M. 197
Inouye, K. 164
Irisawa, H. 280
IRVING, F. G. **411**, 416
Isaacs, A. 59, 400, 403
Ives, D. J. G. 330

Jackson, P. W. 260
Jackson, Sir Willis 81
Jacobs, P. W. M. 65
James, A. T. 297, 298, 299
Jayson, G. G. 338, 343
John, K. 100
Johnson, B. C. 197
Johnson, D. A. 197
Johnson, D. F. 445, 448
Johnson, M. 318
Johnson, T. C. 147
Johnson, W. C. 408, 410
Johnston, R. S. 25
Jönck, P. 502
Jones, G. O. 240
Jones, H. 101, 102, 104, 186
Jones, J. B. 78
Jones, S. L. 327
Jones, S. S. 389
Jones, T. G. 343
Jones, W. 214, 217
Jones, W. R. 464
Joshi, A. D. 17
Junius, W. 320, 322
Juza, R. 502

Kalmus, H. 227
Kantrowitz, A. R. 472
Kaplan, M. H. 59
Karas, G. C. 72, 77
Kato, J. 506
Kauzmann, W. 240
Kawagoe, K. 74, 75, 77, 90, 93
Keen, R. 397
KEITH-LUCAS, D. **172**
Kellenberger, E. 59
Kelly, J. C. 407, 410
Kelly, K. K. 444, 448
Kemhadjian, H. 256
Kempe, L. 157
Kennedy, A. J. 392, 397
Kent, F. W. 243
Kern, D. M. 444, 448
Kerr, K. B. 452
Kertesz, Z. I. 197
Ketelaar, J. A. A. 100
Khan, M. A. 472
Kilpatrick, M. L. 343
Kimball, G. E. 240
Kinchin, G. H. 502
King, C. G. 197
King, C. V. 386, 387, 389
Kirchner, F. 349
Kirke, H. L. 256
Kittel, C. 406, 409, 410, 486
Kive, P. 397
Klemperer, O. 242
Klevens, H. B. 343
Klinkenberg, P. F. A. 364, 372, 429, 435
Klug, A. 59
Kmetko, E. A. 397
Knight, C. A. 59
Knight, H. de B. 420
Kohn, E. J. 100
Kolthoff, I. M. 330
Konig, G. 240
Kopfermann, H. 432, 435
Kosiba, W. 397
Kosten, C. W. 320
Koton, M. M. 140
Krais, P. 343
Krause, H. J. 100
Kraybill, H. F. 195, 197
Kremer, H. 437
Krishan, K. S. 448, 480
Krumhansl, J. A. 392, 397, 442, 445, 448
KUBITSCHEK, H. E. **128**, 135
Külkens, H. 100
Kung, H. C. 197
Kuroda, H. 164

Lai, W. 69, 77
Lamb, J. 237, 239, 240
Landau, L. 161
Landel, R. F. 236, 239, 240
Langer, J. 100
Larsson, L. 100
Laurent, 94
Laves, F. 397
Lawrence, A. S. C. 389
Lawrence, C. A. 157
Lawson, D. I. 69, 77
Lawton, E. A. 100
Lawton, E. J. 157
Lea, L. 157
Leaderman, H. 235, 239
Leaver, V. M. 256
Lebherz, R. W. 309

Lee, H. 184
Lentz, C. P. 208, 209, 211
Leser, W. 140
LESLIE, W. H. P. **250**
Levenson, S. M. 197
Levinstein, H. 404, 410
Lewis, C. W. 140
Lewis, F. A. 492, 495, 501
LEY, F. J. **193,** 379
Licciardello, J. J. 197
Liebig, J. 94, 100
Lienau, G. 100
Lindauer, M. 223, 226, 227
Lindenmann, J. 400, 403
Lindley, B. C. 472
Lingane, J. J. 324, 327
LINGE, J. R. **18**
Lipson, H. 391, 397
Litovitz, T. A. 235, 239
Little, A. D. 299
Lloyd, F. R. 480
LOCK, J. M. **49,** 53
Lockart, R. Z. 403
Loebner, E. E. 397
Long, F. A. 389
Long, G. 394, 397
Lormand, C. 154, 157
Losev, V. B. 140
Losty, H. H. W. 397
Lotmar, N. 100
Lovell, A. C. B. 335
Luckley, T. D. 197
Lukesh, J. S. 391, 397
LUMB, M. **257,** 309
Lund, L. G. 100
Luton, G. E. 38
Lutsenko, U. N. 79
Lwoff, A. 59
Lynch, A. C. 254, 256

Ma Cris, J. A. 157
McClure, J. W. 446, 448
MacCullum, F. O. 399, 403
McCutcheon, J. W. 343
McDonnel, F. R. M. 496, 502
Mack, G. P. 452
Mackay, D. M. 427
McKay, H. A. C. 386, 389
Mackenzie, J. D. 161
McLaren, A. C. 101, 102, 104
McLean, J. A. 256
MacPherson, H. G. 443, 448
Madorsky, S. L. 93
Maggs, F. T. 30, 31
Magnus, A. 441, 442, 448
Magnusson, E. A. 100
Makarov, E. S. 203
Malhotra, H. L. 74, 77
Malmborg, A. S. 309
Malmgren, B. 309
Malmgren, F. O. 310, 318
Malström, C. 397
Mameesh, M. S. 197
Mankowich, A. M. 343
Manowitz, B. 157
Mansfield, W. K. 162
Marion, W. W. 211
Marshall, E. W. 135
Martell, A. E. 389
Martin, A. J. P. 297, 298, 299
Martin, F. L. 157
Martin, G. F. 269
Martin, J. L. 197
Martin, L. C. 427
Martin, S. 69, 77
Marvel, C. S. 510
MASON, P. **234**
Mason, W. 25
MASSEY, H. S. H. **148**
Mathews, J. F. 501, 502
Matthews, R. E. F. 59
May, E. 269
Meek, J. 472
Meeker, I. A. 155, 157
Meers, J. T. 442, 448
Megson, N. J. L. 184
Merritt, C. 197
Merritt, F. R. 448
Merton, T. 7
Metcalfe, S. N. 309
Methfessel, S. 407, 410
Metlitsky, L. V. 197
Metta, V. C. 197
Meyer, K. H. 100
Michelson, A. A. 8, 9, 10, 11
Middlehoek, S. 407, 410
Middleton, F. C. 4, 6
Miller, G. L. 285
Miller, R. F. 410
Mindt, L. 299
Mitchell, J. D. 208, 211
Mittens, W. H. 80
Moore, H. K. 285
Moos, W. S. 157
MORDIKE, B. L. **179**
Moreau, H. 256
Morgan, B. B. 129, 135
Morris, T. N. 211
Morse, R. S. 197
Morton, B. R. 92, 93
Mott, N. F. 186
Mrozowski, S. 395, 397, 444, 448
Mueller, E. F. 250, 256
Mueller, G. E. 504, 506
Mumford, L. 289
Muncey, R. W. 320, 322

Narasimhan, K. I. 17
Nash, A. A. 280
Neel, L. 406, 410
Nelson, J. B. 443, 448
Nelson, K. H. 310, 318
Nernst, W. 441, 442, 448
Neubauer, O. 288
Neubert, T. J. 496, 502
Neugebauer, C. A. 330, 406, 408, 410
Neuringer, J. L. 472
Neville, K. 184
Newkirk, J. B. 330
Nichols, G. E. 441, 442, 448
Nickson, A. F. B. 320, 322
Nierenburg, W. A. 419
Niven, W. W. 343
Nixon, H. L. 227
NOLAN, T. **198**
Nolle, A. W. 239, 240
Nonweiler, T. 329, 436
Nordon, H. C. 156
Norman, W. S. 480
Norvic, A. 496, 502
Nott, C. W. 371, 372
Novak, A. 502
Nozières, P. 448

Oberle, E. M. 157
Odening, C. A. 397
Oguchi, T. 506
Okamura, S. 504, 506
Olszak, W. 204
Orebaugh, J. E. 157
Otto, R. J. A. 100

PADDOCK, N. L. **94,** 100
PAINE, C. **122**
Pallny, E. 299
PALMER, A. **355**
Palmer, D. A. 4
Pandeya, D. C. 408, 410
Pankow, G. W. 100
Parbrook, H. D. 321
Parfitt, J. W. 197
Parisot, J. 397
Park, O. W. 224, 225, 227
PARKER, W. G. **26,** 31, **60**
Parlin, R. B. 101, 104
PARR, N. L. **261,** 269
Paterson, S. 104
Patterson, P. R. 403
Pattin, H. S. 392, 397
Pearson, A. M. 197
Pelekov, V. I. 79
Perkins, D. 329
Perry, H. A. 184
Perry, J. W. 343, 389
Perry, S. L. C. 280
Peters, R. H. 332
Pettersson, O. 314, 318
Pfeister, A. C. 397
Pfizer, C. 259, 260
Phillips, G. O. 153, 157
Piccirelli, R. 235, 239
PILPEL, N. **336,** 343
Pink, R. C. 496, 502
Pinnick, H. T. 396, 397
Pizzo, M. 409, 410
Plank, R. 211
Plass, R. 502
Poling, C. E. 197
Pollock, A. V. 157
Pomp, A. 25
Pompa, F. 100
Pope, Sir William 127
Poppa, H. 347, 349
Popper, P. 269
Powell, C. F. 335
POWELL, D. B. **151,** 197
Powell, R. E. 101, 104
Powell, R. W. 397, 448, 480
Powell, W. F. 403
Powers, R. A. 389
Pratt, P. 269
Preston, J. M. 17
Preston-Thomas, H. 256
Primak, W. 448
Proctor, B. E. 153, 157, 197
Proctor, J. E. 100
Pryor, M. G. M. 240
Ptchelintzev, V. A. 74, 77
Puckle, O. S. 256
Pugh, E. W. 406, 410
Puplett, P. A. R. 343

Quarrell, A. G. 349
Quinton, W. E. 279
Quirk, R. 80

Rae, D. M. 269
Raether, H. 349
Raftery, M. M. 75, 77, 93
Ragos, A. 397
Raistrick, B. 100
Ramo, S. 331
Randall, J. T. 240
Raphael, L. 343
Raphael, R. A. 375
Raspet, A. 411, 416
Rätz, R. 100
Rawson, A. J. 309
Ray, S. K. 100
Rayleigh, Lord 344, 349
Raynor, G. V. 186
Read, M. S. 197
Reddish, G. F. 157
Reich, W. S. 215, 216, 217
Reilley, C. N. 162
Rhodin, T. N. 285
Ribbands, C. R. 227
Ricardo, D. 289
Rice, O.K. 70, 77
Rice, R. G. 100
RICHARDSON, E. G. **319**
Richardson, K. I. T. 48
Richardson, L. R. 197
Richardson, W. A. 17
Riches, N. H. 480
Rider, J. F. 462
Ridgeley, A. 369, 372
Riley, D. P. 396, 397, 443, 448
Riley, P. B. 257, 259, 260
Ringer, W. E. 310, 318
Ripamonti, A. 100
Rob, C. 157
ROBB, D. **250**
Robbins, F. C. 59
Robertson, A. F. 77
Robinson, P. L. 510
ROBSON, C. **141**
Rochlin, R. S. 159
Rochow, E. G. 140
Römer, G. 100
Rosa, R. J. 472
Rosch, G. A. 227
Rose, L. 17
Rosette, K. H. 406, 408, 410
Ross, A. M. 397
Ross, D. 260
Ross, T. K. 343
Roters, H. C. 147
Roth, J. F. 102, 104
Rowe, G. 397
Rubin, B. A. 197
Rubin, H. 59
Rubisch, O. 502
Ruder, R. C. 389
Rüdorff, G. 499, 502
Rüdorff, W. 492, 494–496, 499, 501, 502
Rushmer, R. F. 280
Rusinko, F. 397
Russell, Sir John 270
Russell, R. L. 472
Ruston, G. 31
Ryle, J. W. 503, 506

Sabine, W. C. 319, 322
Saffire, V. N. 184
SALISBURY, Sir EDWARD 121, **248**, 334
Salmon, J. E. 160
SAMUELS, L. E. **344**, 349
Sanders, J. V. 349
Sanger, G. 452
Sanson, R. C. 120
Saratovkin, D. D. 37
Sauer, F. M. 69, 77
Sauerwald, F. 25
Savage, P. A. 260
Savage, R. H. 397
Sawyer, C. H. V. 480
Sawyer, T. K. 59
Sayce, L. A. 2, 7
Scarr, R. F. 215, 217
Schachinger, L. 211
Schaeffer, W. D. 215, 217
Schafer, W. 59
Schafheütl, P. 492, 501
Schenk, R. 100
Scheuber, J. R. 309
Schleede, A. 493, 495, 502
Schlesinger, R. W. 403
Schmeckenberger, A. 502
Schmidt, C. F. 157
Schmitz-Dumont, O. 100
Schmucker, M. L. 197
Schultz, W. W. 159
Schulze, E. 494–496, 502
Schumar, J. F. 288
Schwab, J. L. 309
Schwartz, A. M. 343, 389
Scorer, R. S. 416
Scott Blair, G. W. 217
Searle, H. T. 100
Seel, F. 100
Segre, E. 118
Seitz, F. 186
Sekine, T. 77, 89, 93
Selwood, P. W. 286
Semat, N. 162
Semenoff, N. 77
Serikov, A. S. 164
Setlow, R. B. 403
Shanahan, C. E. A. 323, 327
Shand, E. B. 266, 269
Sharpe, A. G. 501
Sharpe, J. G. 197
Shaw, R. A. 100
Shenker, L. H. 184
Shepard, R. L. 392, 397
Shepherd, B. D. 299
Shepherd, H. J. 197
Shepherd, L. R. 28, 31
Shewan, J. M. 197
Shirkov, D. V. 37
Shulman 487
Shuttleworth, T. H. 343
Sidgwick, N. V. 140
Siebel, E. 25
Sikyta, B. 258, 260
SILCOCK, B. **465**
Sils, V. 502
Simmons, J. H. W. 501, 502
Simms, D. L. 69, 72, 74, 75, 77, 90, 93
Simnad, M. T. 389
SIMONS, W. R. **42**
Simonsen, A. H. 387, 389
Simpson, J. 227
Singdale, F. N. 20, 25
Singh, D. N. 253, 255, 256
Singh, H. 239, 240
Sissons, H. A. 157
Slater 485
Slim, Field Marshal Lord, 502
Sloan, H. 157
Slonczewski, J. C. 445, 446, 448
Smit, J. 38
Smith, A. W. 443, 448
Smith, C. S. 349
Smith, D. 214, 217
Smith, D. O. 406, 410
Smith, D. R. 100
Smith, F. E. 250, 256
Smith, F. W. 343
Smith, J. D. 59
Smith, J. E. 208, 211
Smith, J. R. E. 309
Smith, R. N. 397
SMITH, S. E. **228**
Smithies, W. R. 211
Smorodinsky, Ya. 161
Soep, L. 17
Sokolov, N. 140
Somerville, J. M. 119
Sooke, A. E. 389
Soule, D. E. 447, 448
Sowerby, D. B. 100
Spence, R. 389
Spencer, R. S. 240
Spitzner, M. J. E. 223, 227
Spitzy, K. H. 118
Spooner, P. 332
Sporn, P. 472
Spreadborough, J. 396, 397
Sproul, E. E. 452
Stadelman, W. T. 211
Stancliffe 474, 480
Stanley, S. 389
Stapleton, G. E. 157
Stark, B. T. 389
Starks, H. J. H. 246
Staudenmaier, L. 502
Steers, E. B. M. 367, 368, 372
Steinberger, R. 65
Steinman, R. 100
Stephens, O. 82
Stephens, S. J. 389
Stern, O. 419
Sterne, M. 307, 309
STEWARD, E. G. **164**, 397
Stewart, L. 157
STEVENSON, D. G. **383**, 389
Stimson, H. F. 250, 256
Stock, D. 256
Stokes, A. R. 391, 397, 462
Stokes, H. N. 100
Strafford, N. 163
Strain, R. N. C. 20, 25
Stratton, C. 100
Straus, S. 93
STRÖMSÖE, E. **101**
Strong, H. M. 448
Strough, R. I. 408, 410
Stuart, H. A. 240
Stumpf, H. C. 394, 397
Suck, H. 502
Sundt, E. 299

Sutton, D. 30, 31
Sutton, G. W. 472
Svedrup, H. W. 311, 318
Swift-Hook, D. T. 472

Tallentire, A. 157
Tang, E. F. 403
Tappel, A. L. 197
Tarladgis, B. G. 197
Tarpley, W. 154, 156, 157
Tattersfield, C. P. 17
Taylor, E. C. 375
Taylor, E. L. 197
Taylor, G. 92, 93
Taylor, H. S. 240
Taylor, J. H. 215, 217
Teeling, W. 329
Thach, H. J. 197
Thamer, R. 100
Thomas, H. 407, 410
THOMAS, H. A. **12**
THOMAS, P. H. **69,** 77, 87
Thompson, M. J. 59
Thompson, T. G. 310, 318
Thomson, G. P. 349
Thomson, R. O. 307, 309
THORNTON, B. S. **8**
Thorold, P. 309
THORPE, R. H. **350**
Thring, M. W. 472
TIBBS, S. A. **218**
Tobolsky, A. V. 235, 240
Tolmach, L. J. 59
Tomkins, F. 433, 435
Tonge, B. L. 164
Tower, D. B. 464
Toy, A. D. F. 100
Treloar, L. R. G. 239
Tremembert, M. 480
Tressler, D. K. 211
Trillat, J. J. 243
Trim, J. L. M. 80
Troitsky, V. L. 157
Tromans, F. R. 100
Trotman-Dickenson, A. F. 39
Troup, G. 39
Truhaut, R. 163
Trump, J. G. 157
Tschumi, P. 225, 227
Tsien, W. S. 197
Tsutuku, T. 397
Turner, J. S. 92, 93
Turner, T. C. 154, 157
Tye, R. 397, 480
Tyler, D. N. 17
Tyler, W. W. 448
Tyrrell, D. A. J. 401, 403

Ubbelohde, A. R. 392, 397, 448, 492, 495–497, 501, 502
Uda, H. 506
Ueberreiter, K. 240
UNGAR, J. **304**
Uslan, S. D. 463

Uvarov, E. B. 203
Uyeda, R. 397

Vail, J. G. 343
Valenta, L. 406, 410
Valentine, R. C. 399, 400, 403
van Citters, R. L. 275, 280
van den Berg, L. 208, 209, 211
van der Kerk, G. J. M. 449, 450 452
van der Ziel, A. 287
van Doorn, A. B. C. 502
van Drimmelen 309
van Roosbroek, W. 397
van Vleck, J. H. 406, 410
van Wazer, J. R. 338, 343
van Winkle, W. 157
Vanderlyn, P. B. 254, 256
Venables, R. M. 284
Verity Smith, H. 452
Vermilyea, D. A. 330
Vickerstaff, J. 126, 127
Vickery, B. C. 244
Villaume, F. G. 343
von Frisch, K. 224, 225, 226, 227
von Fuchs, J. N. 336
von Hevesy, A. 387, 389
von Magnus, P. 403, 410
Vonsovsky 486
Voysey, R. G. 472

Wagg, R. E. 343
Waksman 118
Walde, A. W. 452
Waldeck, W. F. 343
Waldron, M. B. 162
Walker, P. L. 397
Walker, W. G. 214, 217
Wallace, P. R. 444, 445, 448
Warburg, J. 80
Warren, B. E. 164, 392, 397
Wartman, L. H. 452
Watkins, S. B. 332
Watson, W. F. 184
Watt, W. 394, 397, 480
Watts, B. M. 197
Way, S. 472
WEBB, F. C. **206,** 240, **378**
WEBB, R. F. 181, **481**
Webster, C. T. 75, 77, 93
Weddel, D. S. 92, 93
Weeks, Lord 417
Weeks, W. F. 314, 315, 316, 318
Weintraub, E. 397
Weir, C. 140
Weiss, P. R. 445, 446, 448
Weissberger, A. 244, 420
Weisz, P. B. 286
Welch, A. 416
Welch, L. 416
Weller, T. H. 59
Wellmann, M. 493, 495, 502
WELTI, D. **295**
Wentorf, R. H. 448
Wentzel, L. M. 309

Were, A. E. 472
Westbrook, J. H. 419
Westbrook, R. D. 392, 397
Westwood, M. A. 403
Whitby, H. C. 472
White, H. E. 162, 429, 435
White, J. L. 161
WHITE, P. A. F. **228**
Wickings-Smith, Mrs D. 299
Wieland, H. 25
Wigner, E. P. 500
Wijn, H. P. J. 38
WILKIN, G. D. **257,** 309
Willhalm, B. 299
Williams, C. 197
Williams, C. G. 121
Williams, M. L. 236, 240
Williams, R. T. 287
Williamson, D. T. N. 7
Willm, G. 253, 255, 256
Wilson, A. C. 448
Wilson, C. T. R. 41
Wilson, G. M. 197
Wilson 100
Winter, J. W. 403
Winter, M. 299
Wise, H. 365, 372
Withrow, R. B. 288
Witt, N. F. 197
Wolf, E. 462
Wolfhard, H. G. 472
Wolfle, D. 204
Wood, L. 140
Wood, R. E. 284
Wood 126
Wooding, N. S. 17
Woods, W. K. 397, 502
Woodward, Betsy 416
Woodworth, P. 197
Wooldridge, D. E. 331
Wraight, H. G. H. 73, 74, 75, 77, 90, 93
Wright, K. A. 157
Wrigley, W. 48
Wynberg, H. 375

Yager, W. A. 448
Yen, J. 197
Yoffe, A. D. 103, 104
Yokoi, S. 87, 93
Yoshida 486
Younathan, M. 197
Young, D. R. 54
Young, G. H. S. 62, 63, 65
Young, J. E. 397

Zachringer, A. J. 62, 65
Zangwill, O. L. 423, 427
Zeller, R. 502
Zener 486
Zettlemoyer, A. C. 214, 215, 217
Zhadanov, A. A. 140
Zinnemann, K. S. 157
Ziporin, Z. Z. 197
Zworykin, V. K. 280

7.

17